

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/696,488B
Source: IFWO
Date Processed by STIC: 3/25/05

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 03/25/2005

PATENT APPLICATION: US/10/696,488B

TIME: 07:28:30

Input Set : D:\411-05-20890SEQLISTASFILED.TXT

Output Set: N:\CRF4\03252005\J696488B.raw

```

4 <110> APPLICANT: Cuenoud, Bernard
5      Altmann, Karl-Heinz
6      Martin, Pierre
7      Moser, Heinz Ernst
9 <120> TITLE OF INVENTION: 2'-Substituted Nucleosides and
10      Oligonucleotide Derivatives
12 <130> FILE REFERENCE: 4-20890B/C1
14 <140> CURRENT APPLICATION NUMBER: US 10/696,488B
15 <141> CURRENT FILING DATE: 2003-10-29
17 <150> PRIOR APPLICATION NUMBER: US 09/753,943
18 <151> PRIOR FILING DATE: 2001-01-03
20 <150> PRIOR APPLICATION NUMBER: US 09/194,844
21 <151> PRIOR FILING DATE: 1999-05-14
23 <150> PRIOR APPLICATION NUMBER: PCT/EP97/02738
24 <151> PRIOR FILING DATE: 1998-05-27
26 <150> PRIOR APPLICATION NUMBER: Switzerland 1432/96
27 <151> PRIOR FILING DATE: 1996-06-06
29 <160> NUMBER OF SEQ ID NOS: 22
31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 20
35 <212> TYPE: RNA
36 <213> ORGANISM: Homo sapiens
38 <400> SEQUENCE: 1
39 aaugcauguc acaggcggga                                20
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 20
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial Sequence
46 <220> FEATURE:
47 <223> OTHER INFORMATION: Mammalian
W--> 49 <221> NAME/KEY: misc_feature
50 <222> LOCATION: (1)...(20)
51 <223> OTHER INFORMATION: at least one modified sugar residue
W--> 53 <400> 2
54 tccccgcctgt gacatgcatt                                20
56 <210> SEQ ID NO: 3
57 <211> LENGTH: 15
58 <212> TYPE: DNA
59 <213> ORGANISM: Artificial Sequence
61 <220> FEATURE:
62 <223> OTHER INFORMATION: Mammalian
W--> 64 <221> NAME/KEY: misc_feature

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65 <222> LOCATION: (5)...(0)
66 <223> OTHER INFORMATION: 2'-substituted sugar at position 5
W--> 68 <400> 3
69 ttttttctctc tctct 15
71 <210> SEQ ID NO: 4
72 <211> LENGTH: 15
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial Sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Mammalian
W--> 79 <221> NAME/KEY: misc_feature
80 <222> LOCATION: 5, 7, 9, 11, 13
81 <223> OTHER INFORMATION: 2'-substituted sugar at positions 5, 7, 9, 11 and
82 13
W--> 85 <400> 4
86 ttttttctctc tctct 15
88 <210> SEQ ID NO: 5
89 <211> LENGTH: 16
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Mammalian
W--> 96 <221> NAME/KEY: misc_feature
97 <222> LOCATION: 1, 7, 9 15
98 <223> OTHER INFORMATION: 2'-substituted sugar at positions 1, 7, 9, and 15
W--> 101 <400> 5
102 tccaggtgtc cgcac 16
104 <210> SEQ ID NO: 6
105 <211> LENGTH: 15
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Mammalian
W--> 112 <221> NAME/KEY: misc_feature
113 <222> LOCATION: (1)...(5)
114 <223> OTHER INFORMATION: 2'-substituted sugar at positions 1-5
W--> 117 <400> 6
118 ttttttctctc tctct 15
120 <210> SEQ ID NO: 7
121 <211> LENGTH: 15
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Mammalian
W--> 128 <221> NAME/KEY: misc_feature
129 <222> LOCATION: (5)...(14)
130 <223> OTHER INFORMATION: 2'-substituted sugar
W--> 133 <221> modified_base
134 <222> LOCATION: 6, 8 10, 12, 14

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135 <223> OTHER INFORMATION: m5c
W--> 137 <400> 7
138 tttttctctc tctct
140 <210> SEQ ID NO: 8
141 <211> LENGTH: 15
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Mammalian
W--> 148 <221> NAME/KEY: misc_feature
149 <222> LOCATION: (1)...(14)
150 <223> OTHER INFORMATION: 2'-substituted sugar
W--> 152 <221> modified_base
153 <222> LOCATION: 6, 8, 10, 12, 14
154 <223> OTHER INFORMATION: m5c
W--> 156 <400> 8
157 tttttctctc tctct
159 <210> SEQ ID NO: 9
160 <211> LENGTH: 15
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Mammalian
W--> 167 <221> NAME/KEY: misc_feature
168 <222> LOCATION: (5)...(14)
169 <223> OTHER INFORMATION: 2'-substituted sugar
W--> 171 <221> modified_base
172 <222> LOCATION: 6, 8, 10, 12, 14
173 <223> OTHER INFORMATION: m5c
W--> 175 <400> 9
176 tttttctctc tctct
178 <210> SEQ ID NO: 10
179 <211> LENGTH: 15
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Mammalian
W--> 186 <221> NAME/KEY: misc_feature
187 <222> LOCATION: (11)...(0)
188 <223> OTHER INFORMATION: 2'-substituted sugar
W--> 191 <400> 10
192 agagagagag aaaaaa
194 <210> SEQ ID NO: 11
195 <211> LENGTH: 15
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Mammalian
W--> 202 <221> NAME/KEY: misc_feature

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203 <222> LOCATION: 3, 5, 7, 9, 11
204 <223> OTHER INFORMATION: 2'-substituted sugar
W--> 206 <400> 11
207 agagagagag aaaaaa 15
209 <210> SEQ ID NO: 12
210 <211> LENGTH: 15
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Mammalian
W--> 217 <221> NAME/KEY: misc_feature
218 <222> LOCATION: (11)...(14)
219 <223> OTHER INFORMATION: 2'-substituted sugar
W--> 221 <400> 12
222 agagagagag aaaaaa 15
224 <210> SEQ ID NO: 13
225 <211> LENGTH: 15
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Mammalian
W--> 232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (2)...(11)
234 <223> OTHER INFORMATION: 2'-substituted sugar
W--> 236 <400> 13
237 agagagagag aaaaaa 15
239 <210> SEQ ID NO: 14
240 <211> LENGTH: 13
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Mammalian
W--> 247 <221> NAME/KEY: misc_feature
248 <222> LOCATION: 4, 6, 12
249 <223> OTHER INFORMATION: 2'-substituted sugar
W--> 251 <400> 14
252 aggtgtccgc atc 13
254 <210> SEQ ID NO: 15
255 <211> LENGTH: 16
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Mammalian
W--> 262 <221> NAME/KEY: misc_feature
263 <222> LOCATION: (13)...(15)
264 <223> OTHER INFORMATION: 2'-substituted sugar
W--> 266 <400> 15
267 tccaggtgtc cgtttc 16
269 <210> SEQ ID NO: 16

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270 <211> LENGTH: 21
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Mammalian-Target DNA
277 <400> SEQUENCE: 16
278 gctaaaaaga gagagagatc g                                     21
280 <210> SEQ ID NO: 17
281 <211> LENGTH: 21
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Mammalian-Opposite strand of target DNA SEQ ID NO:
287     16
290 <400> SEQUENCE: 17
291 cgatctctct ctcttttttag c                                     21
293 <210> SEQ ID NO: 18
294 <211> LENGTH: 20
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: Mammalian
W--> 301 <221> NAME/KEY: misc_feature
302 <222> LOCATION: (1)...(20)
303 <223> OTHER INFORMATION: phosphorothioate backbone
W--> 305 <221> misc_feature
306 <222> LOCATION: 2, 4, 15, 17, 19
307 <223> OTHER INFORMATION: 2'-substituted sugar
W--> 309 <400> 18
310 tcccgcctgt gacatgcatt                                     20
312 <210> SEQ ID NO: 19
313 <211> LENGTH: 20
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: Mammalian
W--> 320 <221> NAME/KEY: misc_feature
321 <222> LOCATION: (6)...(15)
322 <223> OTHER INFORMATION: phosphorothioate backbone
W--> 324 <221> misc_feature
325 <222> LOCATION: (1)...(5)
326 <223> OTHER INFORMATION: 2'-substituted sugar
W--> 328 <221> misc_feature
329 <222> LOCATION: (15)...(19)
330 <223> OTHER INFORMATION: 2'-substituted sugar
W--> 332 <400> 19
333 tcccgcctgt gacatgcatt                                     20
335 <210> SEQ ID NO: 20
336 <211> LENGTH: 20

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VERIFICATION SUMMARY

DATE: 03/25/2005

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TIME: 07:28:31

Input Set : D:\411-05-20890SEQLISTASFILED.TXT

Output Set: N:\CRF4\03252005\J696488B.raw

L:49 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:53 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:64 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:68 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:79 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:85 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:96 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:101 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:112 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:117 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:128 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:133 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:137 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:148 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:152 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:156 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:167 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:171 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:175 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:186 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:191 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10
L:202 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:206 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
L:217 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:221 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12
L:232 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:236 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13
L:247 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:251 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14
L:262 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:266 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:301 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:305 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
L:309 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
L:320 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:324 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:328 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:332 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:343 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:347 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:351 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:355 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:366 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:371 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
L:375 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
L:379 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
L:390 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:395 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22

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L:399 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22

L:403 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22